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# TRANSMITTAL FORM (to be used for all correspondence after initial filing) Application Number 10/789,306 Filing Date February 27, 2004 First Named Inventor Aram, Farbod Art Unit 2819 Examiner Name Lam T. Mai

Total Number of Pages in This Submission Attorney Docket Number MP0402 ENCLOSURES (check all that apply) After Allowance Communication to Fee Transmittal Form □ Drawing(s) Technology Center (TC) Appeal Communication to Board of Fee Attached Licensing-related Papers Appeals and Interferences Petition Appeal Communication to TC Amendment / Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a After Final Proprietary Information Provisional Application Power of Attorney, Revocation Affidavits/declaration(s) Status Letter Change of Correspondence Address Terminal Disclaimer Other Enclosure(s) Extension of Time Request (please identify below): PTO Form 1449 with 9 cited Request for Refund references (3 US Patent Express Abandonment Request Documents - not attached; 6 CD, Number of CD(s) Other Documents - attached); Information Disclosure Statement and Return Postcard The Commissioner is hereby authorized to charge any additional Remarks Certified Copy of Priority fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Document(s) Account No. 08-0750. A duplicate copy of this sheet is enclosed. Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Reg. No. Firm Attorney Name Harness, Dickey & Pierce, P.L.C. Michael D. Wiggins 34,754 Individual name Signature Date September 26, 2005

#### CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Donna Senn	Express Mail Label No.	EV 717 344 976 US (9/26/2005)
Signature	Loma Sem	Date	September 26, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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#### **PATENT**

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

10/789,306

Filing Date:

February 27, 2004

Applicant:

Aram, Farbod

**Group Art Unit:** 

2819

Examiner:

Lam T. Mai

Title:

Ahuija Compensation Circuit with Enhanced Bandwidth

Attorney Docket:

MP0402

Director of the United States Patent and Trademark Office

P.O. Box 1450

Alexandria, VA 22313-1450

#### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

#### I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

#### II. COPIES

A. Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) each unpublished U.S. application listed below in Section IV (i.e., including the specification, claims, and any drawing of the application, or that portion of the application which caused it to be listed, including any claims directed to that portion), except for such applications filed on or after June 30, 2003, pursuant to the Waiver of the Copy Requirement in 37 C.F.R. 1.98 (OG Notice dated October 19, 2004); and (iv) all other information or that portion which caused it to be listed.

	B. Any patents, publications or other information which are listed on Forr 1449 or on the copies of PTO-892, but which are not enclosed herewith, wer previously cited by or submitted to the PTO in one of the following application which has been relied upon for an earlier filing date under 35 U.S.C. § 120:
	U.S. Serial Number U.S. Filing Date
	C. This is a PCT application in the entry of the National Phase in the Unite States. A copy of the International Search Report is attached for the Examiner information. The documents listed on the International Search report are listed on the attached Form 1449 for consideration by the Examiner and for listing of any patent resulting from this application. If the International Search report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g).)
III.	CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)
	A. $\boxtimes$ Except as may be indicated below in (B), all of the patents, publications of other information are in the English language (concise explanation not required).
	B. A concise explanation of the relevance of each patent, publication or othe information listed that is not in the English language is as follows (see 37 C.F.F § 1.98(a)(3)):
	1. See the attached foreign patent office communication from counterpart foreign application:
	2. English translations are provided:
	3.  Other:
	C. The following additional information is provided for the Examiner consideration.

IV.	CROSS REFERENCE	IO RELATED APPLIC	ATION(S)
	contain(s) subject matt	er that may be relate lication(s) to the Exar	ollowing co-pending application(s) ed to the present application. By niner's attention, Applicant(s) does 35 U.S.C. § 122.
	Serial No.	Filing Date	Art Unit
V.	THIS IDS IS BEING FIL		
	A. 37 C.F.R. § 1.97(I	<b>b):</b> (check <u>only</u> one bo	×)
	than a continued	<b>—</b>	date of a national application other tion under § 1.53(d) (37 C.F.R. § quired.
		n an international appli	of entry of the national stage as set cation (37 C.F.R. § 1.97(b)(2)). No
	1.97(b)(3)). No Office Action on under 37 C.F.R. 1.97(e) below; o	fee or certification is the merits has been § 1.97(c) and see the r, if no certification has	e Action on the merits (37 C.F.R. § required. In the event that a first issued, please consider this IDS he certification under 37 C.F.R. § as been made, charge our deposit as required by 37 C.F.R. § 1.17(p)
			e Action after the filing of a request F.R. § 1.114. No fee or certification
	В. <b> 37 С.F.R. § 1.97</b> (с	c): (check <u>only</u> one bo	×)
		of Allowance under 37	nal Office Action under 37 C.F.R. § 7 C.F.R. § 1.311, or an action that
	1. ☐ No certifica by 37 C.F.R. § 1.		n the amount of \$180.00 is required
	2. ☐ See the cei	tification below. No fe	e is required.

	C. 37 C.F.R. § 1.97(d):
	after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
	1.  See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
VI.	CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)
	The undersigned hereby certifies that:
	A.   each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)).   See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or
	B. $\square$ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
	C. some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.
VII.	STATEMENT UNDER 37 C.F.R. 1.704(d)
	The undersigned hereby states that:
	each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

### VIII. PAYMENT OF FEES (check only one box)

- A. A check in the amount of \$180.00 is enclosed for the above identified fee.
- B. 

  Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: September 26, 2005

Michael D. Wiggin

Reg. No. 34,754

Harness, Dickey & Pierce, P.L.C. P.O. Box 828
Bloomfield Hills, Michigan 48303 (248) 641-1600

MDW/dls



M HDP-1449 (Based on Form PTO-1449)

## PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET NO.	SERIAL NO.
MP0402	10/789,306
APPLICANT	
Aram, Farbod	
FILING DATE	GROUP
February 27, 2004	2819

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		6,466,091 B1	10/15/2002	Kejariwal, Murari et al		
2.		6,515,540 B1	2/4/2003	Prasad, Ammisetti et al		
3.		6,525,589 B1	2/25/2003	Thomsen, Axel et al		

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.							

Ref.	Examiner's	
Desig.	Initials	· ·
1.		W. Grise, Dept. of IET, Morehead State University, Morehead, KY; Application of the Operational Transconductance Amplifier (OTA) to Voltage-controlled Amplifiers and Active Filters; 10 pages
2.		Axel Thomsen, Dan Kasha, Wai Lee, Crystal Semiconductor Division, Cirrus Logic, Inc., Austin, Texas; A Five Stage Chopper Stabilized Instrumentation Amplifier Using Feedforward Compensation; 1998; 4 pages
3.		Axel Thomsen, Edwin de Angel, Sherry Ziachong Wu, Aryesh Amar, Lei Wang, Wai Lee, WA 20.1 A DC Measurement IC with 130nV <sub>pp</sub> Noise in 10Hz; 2000 IEEE International Solid-State Circuits Conference; 9 pages
4.		Axel Thomsen, Edwin de Angel, Sherry Ziachong Wu, Aryesh Amar, Lei Wang, Wai Lee, WA 20.1 A DC Measurement IC with 130nV <sub>pp</sub> Noise in 10Hz; ISSCC 2000/Session 20/Oversampled Converters/ Paper WA 20.1 ISSCC 2000 Slide Supplement; 5 pages

Examiner: Date Considered:	aminer:	Date Considered:	

## FORM HDP-1449 (Based on Form PTO-1449)

# PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 2 of 2

ATTORNEY DOCKET No.	SERIAL NO.	
MP0402	10/789,306	
APPLICANT		
Aram, Farbod		
FILING DATE	GROUP	
February 27, 2004	2819	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)				
Ref. Desig.	Examiner's Initials			
5.		M. Moyal, M. Groepl, H. Werker, G. Mitteregger, J. Schambacher; Xignal Technologies AG, Munich, Germany; 23.6 A 700/900mW/Channel CMOS Dual Analog Front-End IC for VDSL with Integrated 11.5/14.5dBm Line Drivers; 2003 IEEE International Solid-State Circuits Conference; ISSCC 2003/Session 23/Mixed-Signal and Wireline Techniques; 10 pages		
6.		M. Moyal, M. Groepl, H. Werker, G. Mitteregger, J. Schambacher; Xignal Technologies AG, Munich, Germany; A 700/900mW/Channel CMOS Dual Analog Front-End IC for VDSL with Integrated 11.5/14.5dBm Line Drivers; Outline, Overview 24 pages		

Examiner:	Date Considered: